Parisa Hosseinzadeh

List of Publications by Year
in descending order

25 papers	1,660 citations	471509 17 h-index	580821 25 g-index
26 all docs	26 docs citations	26 times ranked	2633 citing authors

#	Article	IF	Citations
1	Metalloproteins Containing Cytochrome, Ironâ€“Sulfur, or Copper Redox Centers. Chemical Reviews, 2014, 114, 4366-4469.	47.7	672
2	Comprehensive computational design of ordered peptide macrocycles. Science, 2017, 358, 1461-1466.	12.6	146
3	Design and fine-tuning redox potentials of metalloproteins involved in electron transfer in bioenergetics. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 557-581.	1.0	130
4	A designed heme-[4Fe-4S] metalloenzyme catalyzes sulfite reduction like the native enzyme. Science, 2018, 361, 1098-1101.	12.6	109
5	Design of a single protein that spans the entire 2-V range of physiological redox potentials. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 262-267.	7.1	91
6	Biochemical and biophysical understanding of metal ion selectivity of DNAzymes. Inorganica Chimica Acta, 2016, 452, 12-24.	2.4	83
7	Defining the Role of Tyrosine and Rational Tuning of Oxidase Activity by Genetic Incorporation of Unnatural Tyrosine Analogs. Journal of the American Chemical Society, 2015, 137, 4594-4597.	13.7	68
8	Reversible S-nitrosylation in an engineered azurin. Nature Chemistry, 2016, 8, 670-677.	13.6	41
9	Heme redox potentials hold the key to reactivity differences between nitric oxide reductase and heme-copper oxidase. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6195-6200.	7.1	41
10	Computationally designed peptide macrocycle inhibitors of New Delhi metallo-Î²-lactamase 1. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	41
11	Anchor extension: a structure-guided approach to design cyclic peptides targeting enzyme active sites. Nature Communications, 2021, 12, 3384.	12.8	37
12	Direct EPR Observation of a Tyrosyl Radical in a Functional Oxidase Model in Myoglobin during both H₂O₂ and O₂ Reactions. Journal of the American Chemical Society, 2014, 136, 1174-1177.	13.7	28
13	Long-Range Electron Transfer in Engineered Azurins Exhibits Marcus Inverted Region Behavior. Journal of Physical Chemistry Letters, 2015, 6, 100-105.	4.6	25
14	A Purple Cupredoxin from Nitrosopumilus maritimus Containing a Mononuclear Type 1 Copper Center with an Open Binding Site. Journal of the American Chemical Society, 2016, 138, 6324-6327.	13.7	23
15	Enhancing Mn(II)-Binding and Manganese Peroxidase Activity in a Designed Cytochrome c Peroxidase through Fine-Tuning Secondary-Sphere Interactions. Biochemistry, 2016, 55, 1494-1502.	2.5	23
16	Overcoming Near-Cognate Suppression in a Release Factor 1-Deficient Host with an Improved Nitro-Tyrosine tRNA Synthetase. Journal of Molecular Biology, 2020, 432, 4690-4704.	4.2	23
17	Identifying the Elusive Sites of Tyrosyl Radicals in Cytochrome c Peroxidase: Implications for Oxidation of Substrates Bound at a Site Remote from the Heme. Biochemistry, 2014, 53, 3781-3789.	2.5	20
18	Stopped-Flow Studies of the Reduction of the Copper Centers Suggest a Bifurcated Electron Transfer Pathway in Peptidylglycine Monooxygenase. Biochemistry, 2016, 55, 2008-2021.	2.5	15

#	Article	IF	Citations
19	Effect of circular permutation on the structure and function of type 1 blue copper center in azurin. Protein Science, 2017, 26, 218-226.	7.6	12
20	Isolating Conformers to Assess Dynamics of Peptidic Catalysts Using Computationally Designed Macrocyclic Peptides. ACS Catalysis, 2021, 11, 4395-4400.	11.2	11
21	Computational Design of Structured and Functional Peptide Macrocycles. Methods in Molecular Biology, 2022, 2371, 63-100.	0.9	6
22	Design of Protein Segments and Peptides for Binding to Protein Targets. Biodesign Research, 2022, 2022, .	1.9	6
23	Design of Heteronuclear Metalloenzymes. Methods in Enzymology, 2016, 580, 501-537.	1.0	5
24	Stepwise nitrosylation of the nonheme iron site in an engineered azurin and a molecular basis for nitric oxide signaling mediated by nonheme iron proteins. Chemical Science, 2021, 12, 6569-6579.	7.4	2
25	Overview of Methods for Purification and Characterization of Metalloproteins. Current Protocols, 2021, 1, e234.	2.9	2